

## ABSTRACT

The present invention provides for a satellite system that will permit for the transmission of signals of two different frequencies and polarities to be transmitted simultaneously over the same cable. The ~~also~~ the system will 5 accommodate two different polarity commands from two or more different sources at the same time. The satellite system of the present invention includes a satellite dish or antenna that receives~~s~~ signals. These received signals are then transmitted to a converter. A head-in frequency processor is coupled to the converter. This head-in frequency processor enables the different frequencies 10 and polarities to be transmitted simultaneously via a single coaxial cable. This single coaxial cable is coupled to a head-out receiver processor which is connected to a receiver. This receiver is connected to a TV or other source. This unique design and configuration provides for the ~~a~~ system that will permit for satellite broadcasting ~~to occur~~ broadcast reception in locations that are not in the 15 line-of-sight path ~~to~~ of the satellites. Accordingly, the satellite system of the present invention will permit satellite broadcasting in ~~to~~ high-rises buildings, hospitals, condominiums, schools, and the like.